

MINE CLEARING BLADE (MCB) DEADLINING COMPONENTS

(IAW MAINTENANCE SAFETY MESSAGE DATED MAY 95)



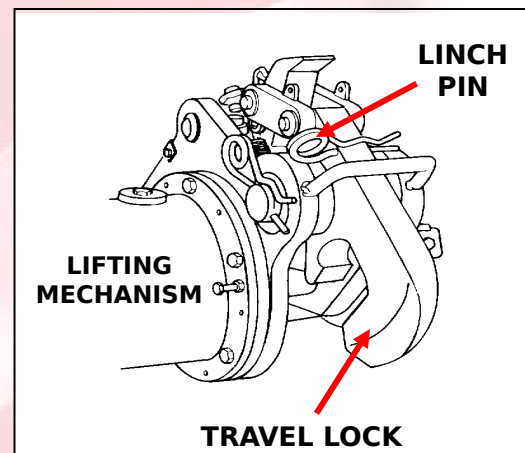
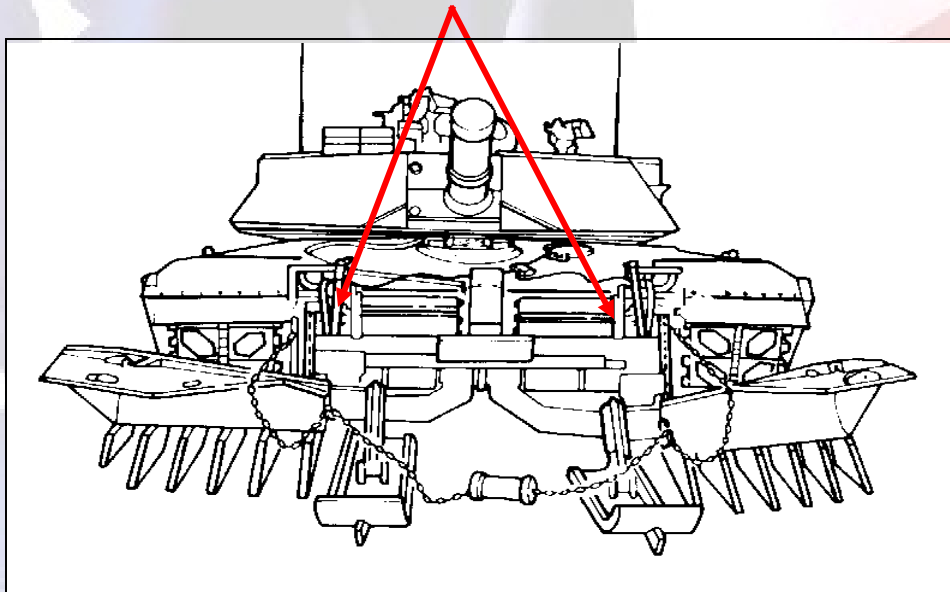
WARNING

Death or serious injury to soldiers or damage to army equipment can occur if these instructions are not followed.

Any **NMC deficiencies will deadline all mine clearing blade (MCB) operations. The MCB should be removed from the M1 until all NMC deficiencies are**

TRAVEL LOCKS/ LIFTING MECHANISM

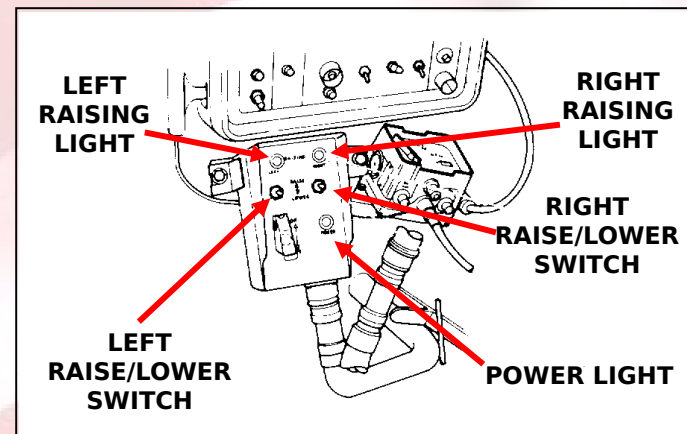
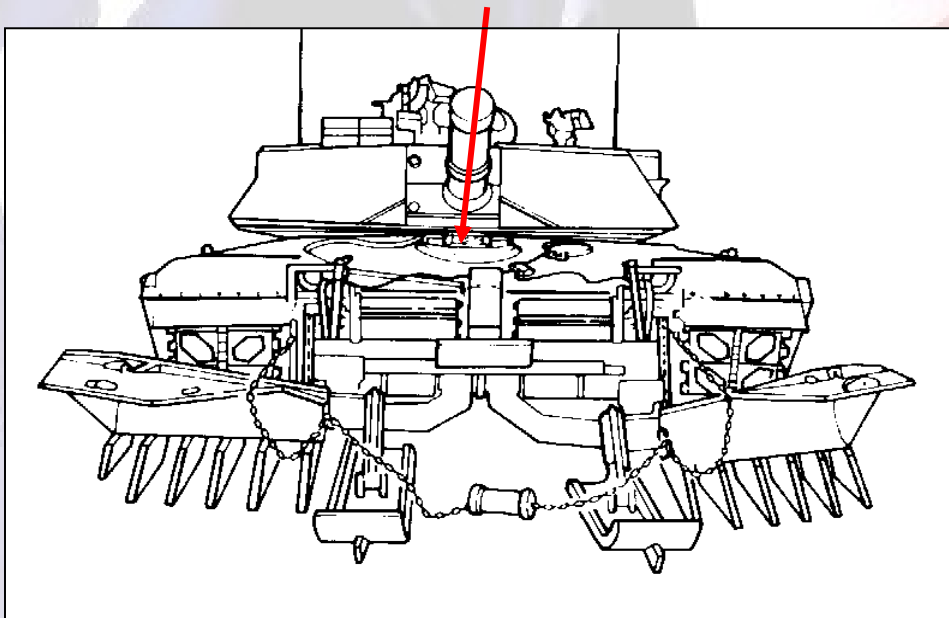
TRAVEL LOCKS



1. LEFT OR RIGHT BLADE WILL NOT RAISE.
2. EITHER LIFT MECHANISM FAILS TO SHUT OFF WHEN RAISE/LOWER SWITCH IS RELEASED.
3. ONE OR MORE LINCH PINS ARE MISSING.
4. EITHER LIFT MECHANISM SHOWS SIGNS OF OIL LEAKING.
5. LEFT OR RIGHT BLADE WILL NOT LOWER USING ELECTRICAL RELEASE.

CONTROL BOX

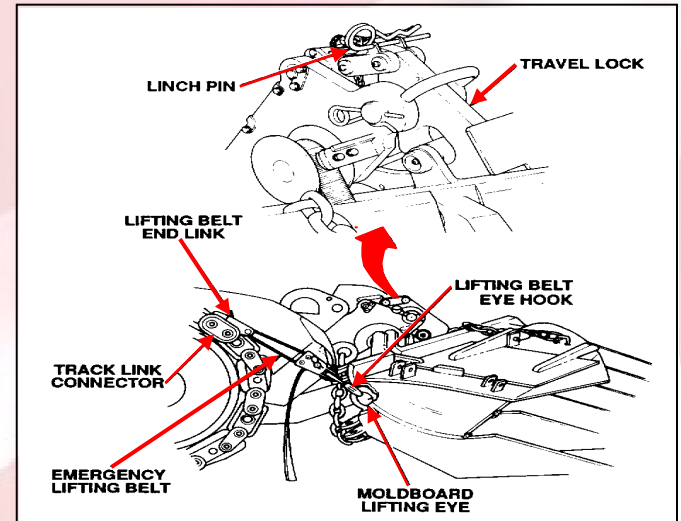
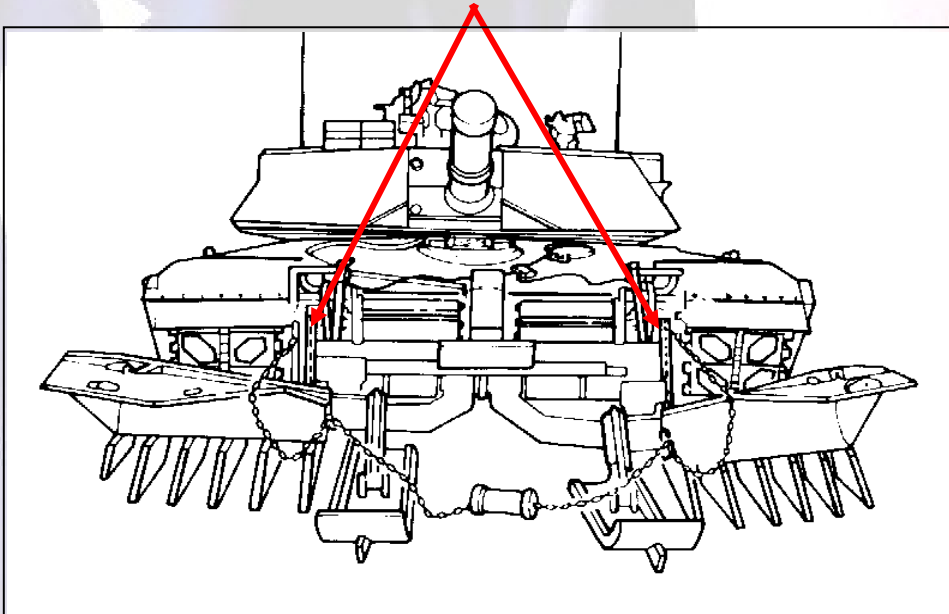
CONTROL BOX IN DRIVERS STATION



1. ANY LIGHT ON THE CONTROL BOX THAT DOES NOT WORK.

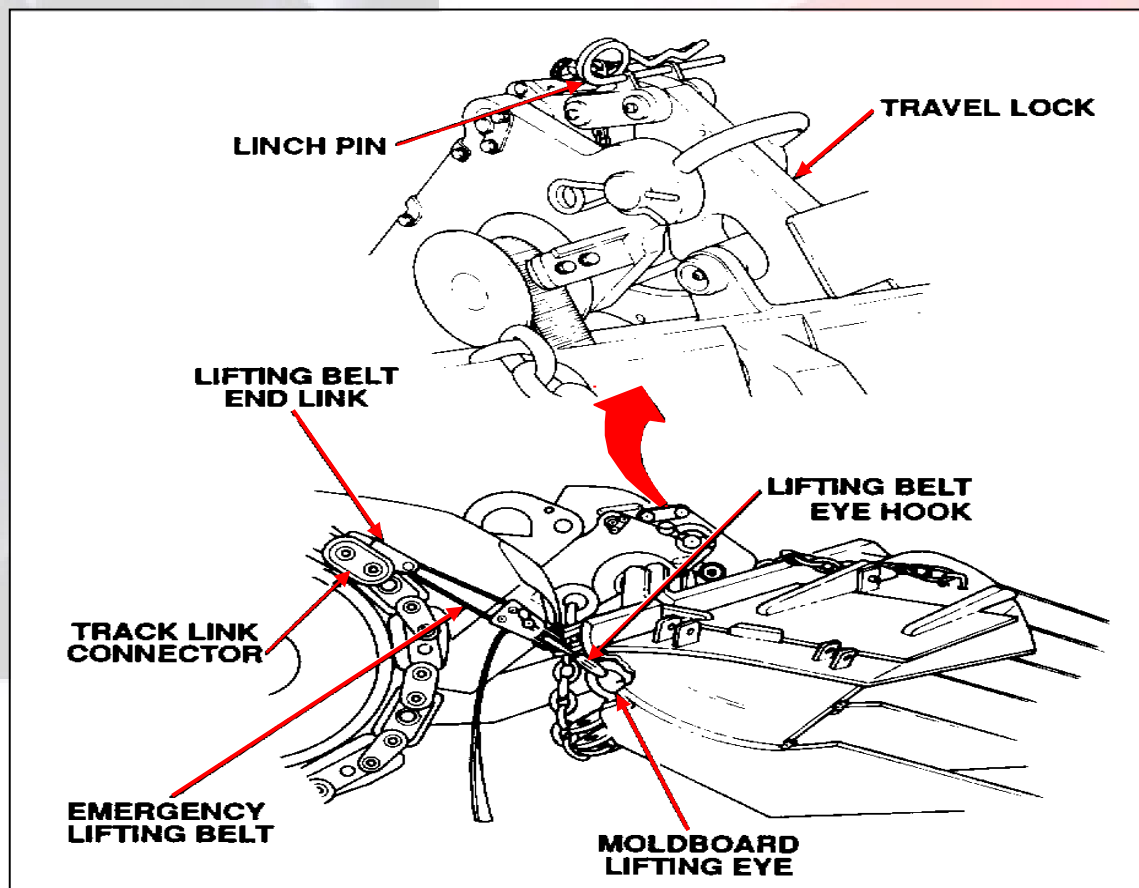
LIFTING STRAPS

LIFTING STRAPS



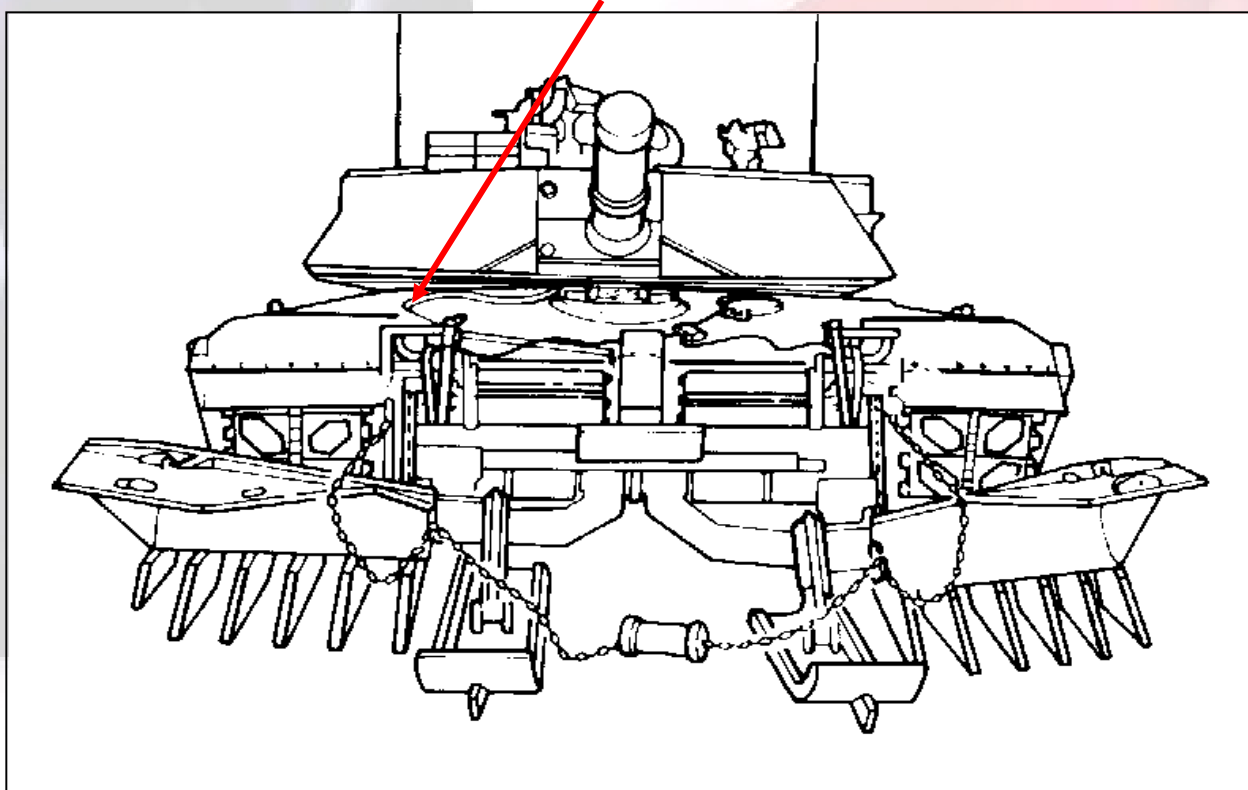
1. ANY STRAP BROKEN, CUT, OR FRAYED GREATER THAN 1/2 INCH (1.27 CM)

LIFTING STRAPS



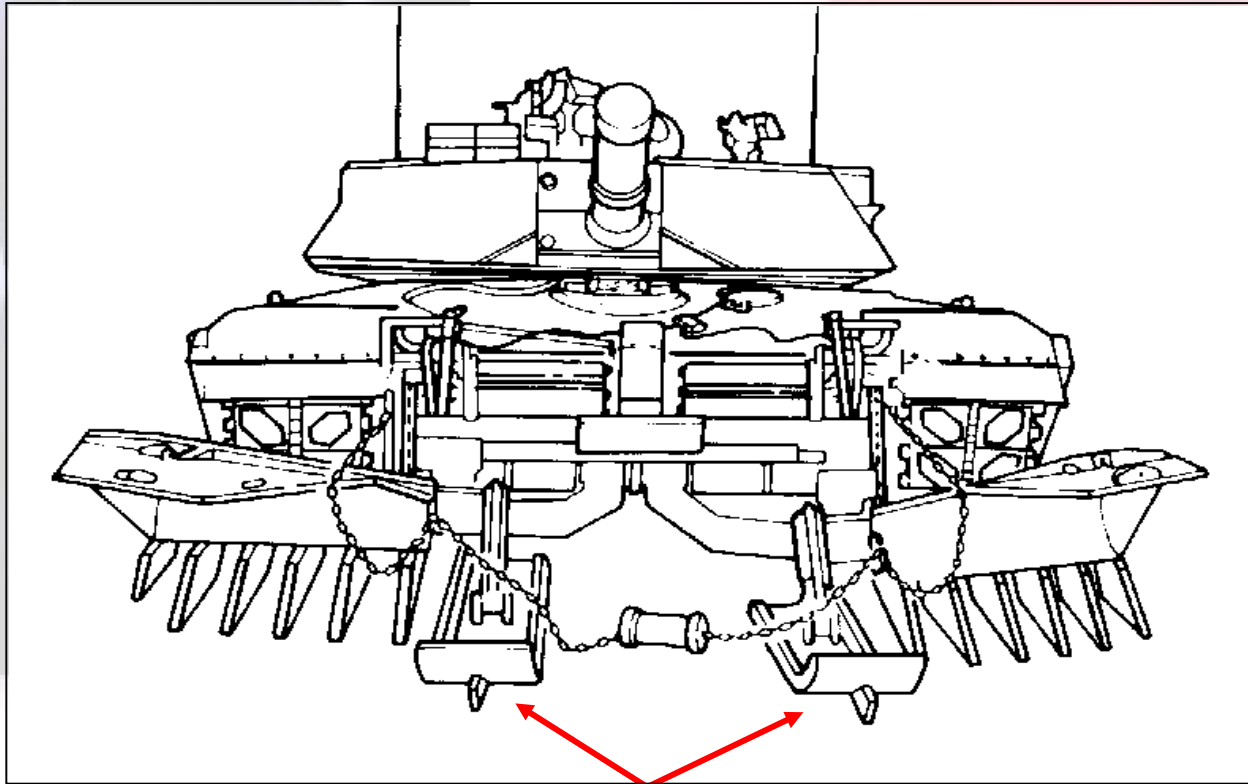
MAIN WIRING HARNESS

WIRING HARNESS



1. ANY CUTS, BREAKS OR ANY PORTION OF THE CABLE IS DAMAGED
2. M1A2: ANY CUTS, BREAKS, DAMMAGED CONNECTORS OR CONNECTOR THAT WILL NOT LOCK

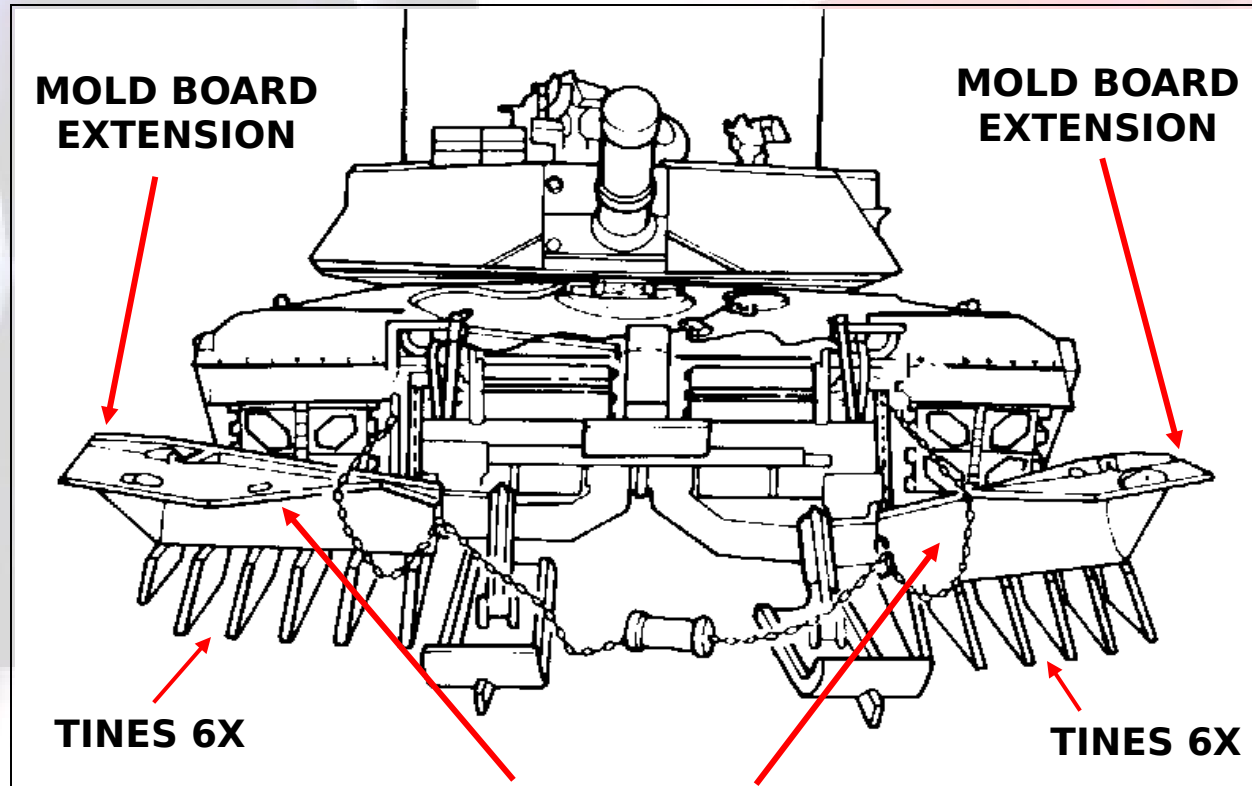
SKID SHOES



SKID SHOES

- 1. ANY CRACKS, BROKEN WELDS OR MISSING OR BROKEN PARTS.**
- 2. ANY LOOSE MOUNTING BOLTS/NUTS.**
- 3. ANY SKID SHOE THAT DOESN'T MOVE FREELY.**

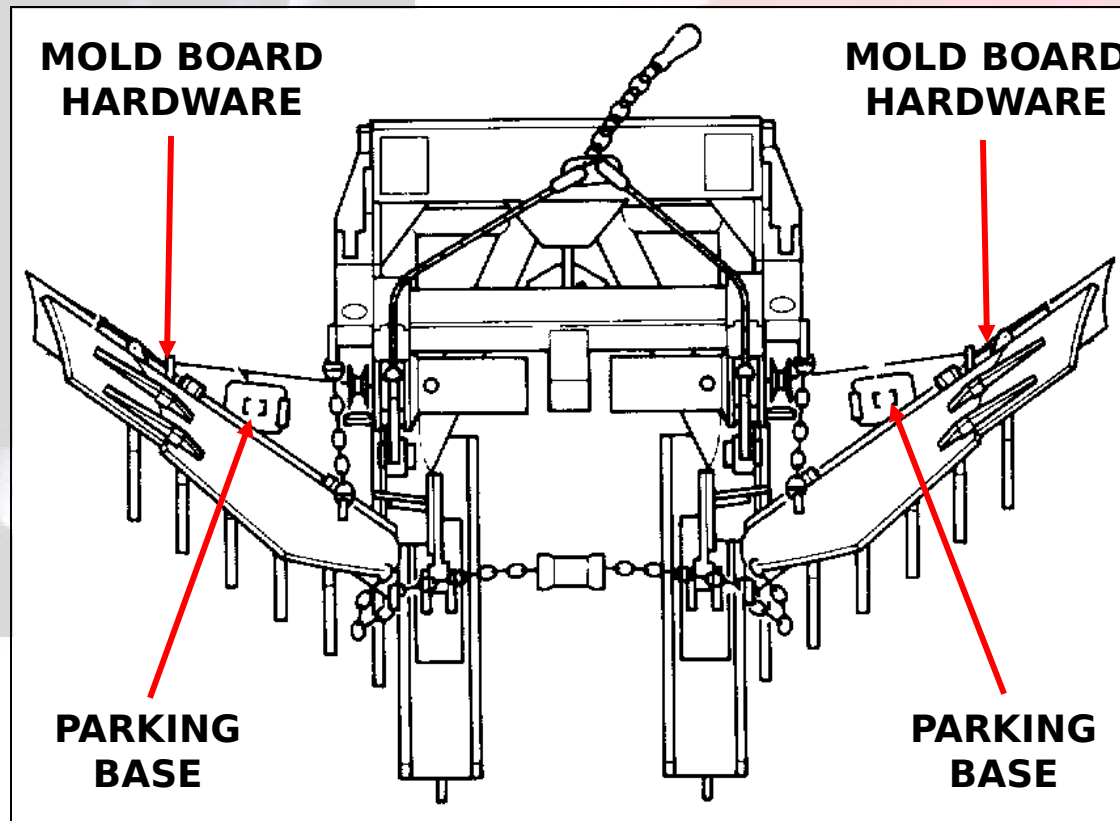
MOLD BOARDS AND EXTENSIONS



MOLD BOARDS

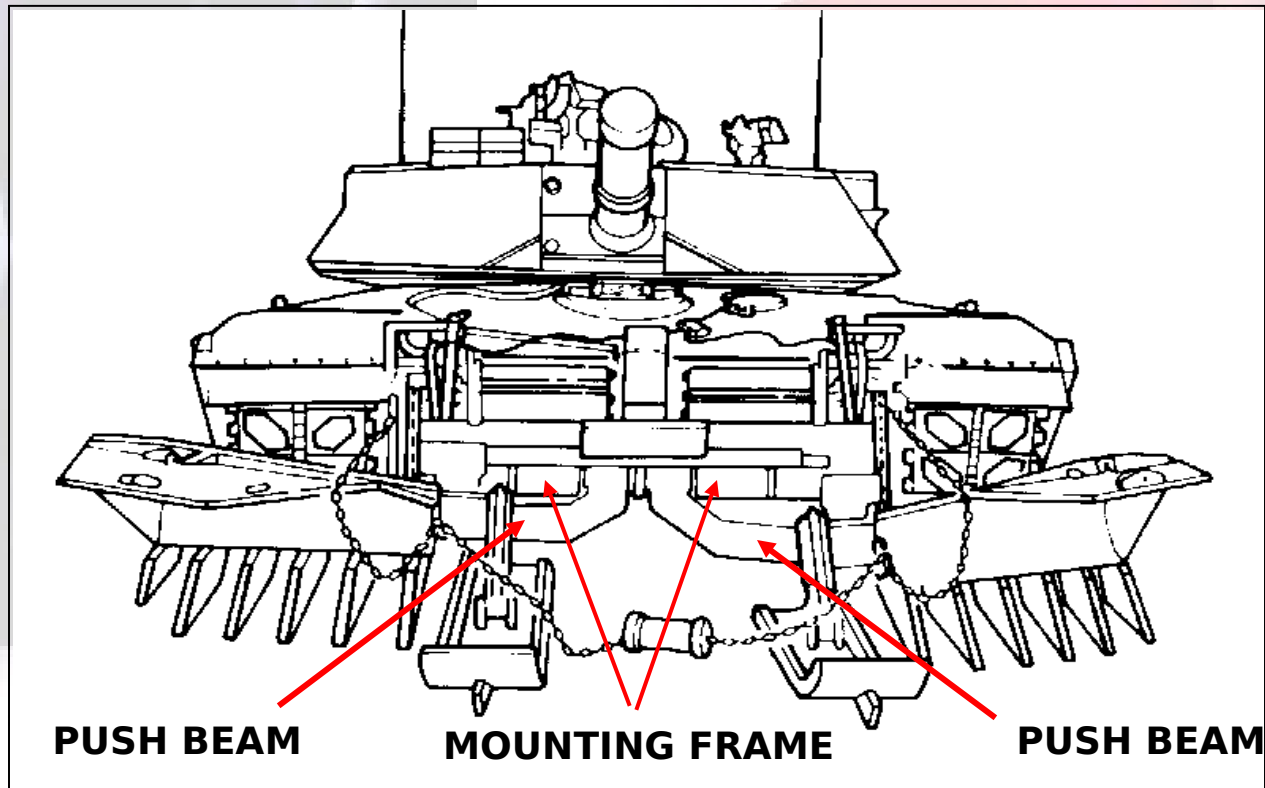
1. ANY BROKEN MOLD BOARD OR EXTENSION CRACKED, BROKEN, OR MISSING.
2. ANY MISSING MOUNTING HARDWARE.
3. 50% OR MORE TINES MISSING FROM A SIDE.

MOLD BOARD HARDWARE/ PARKING BASE



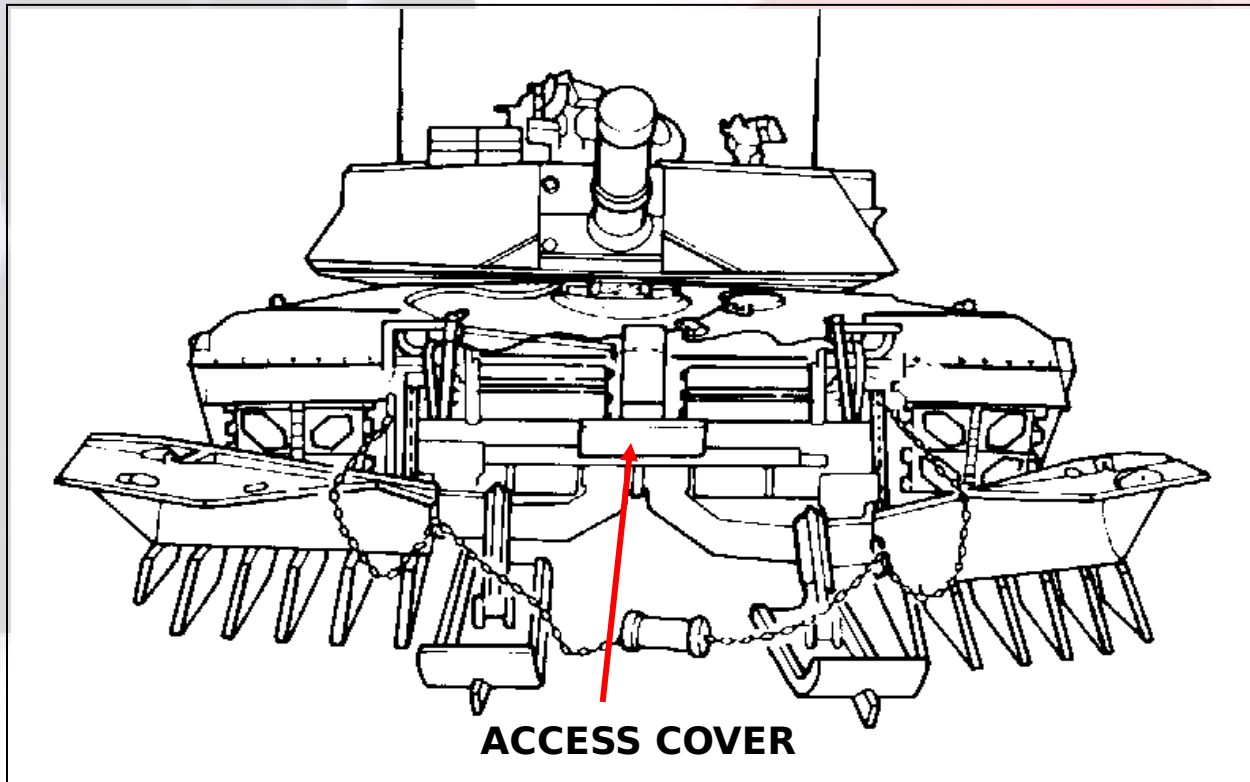
TOP VIEW

PUSH BEAMS/ FRAME ASSEMBLY



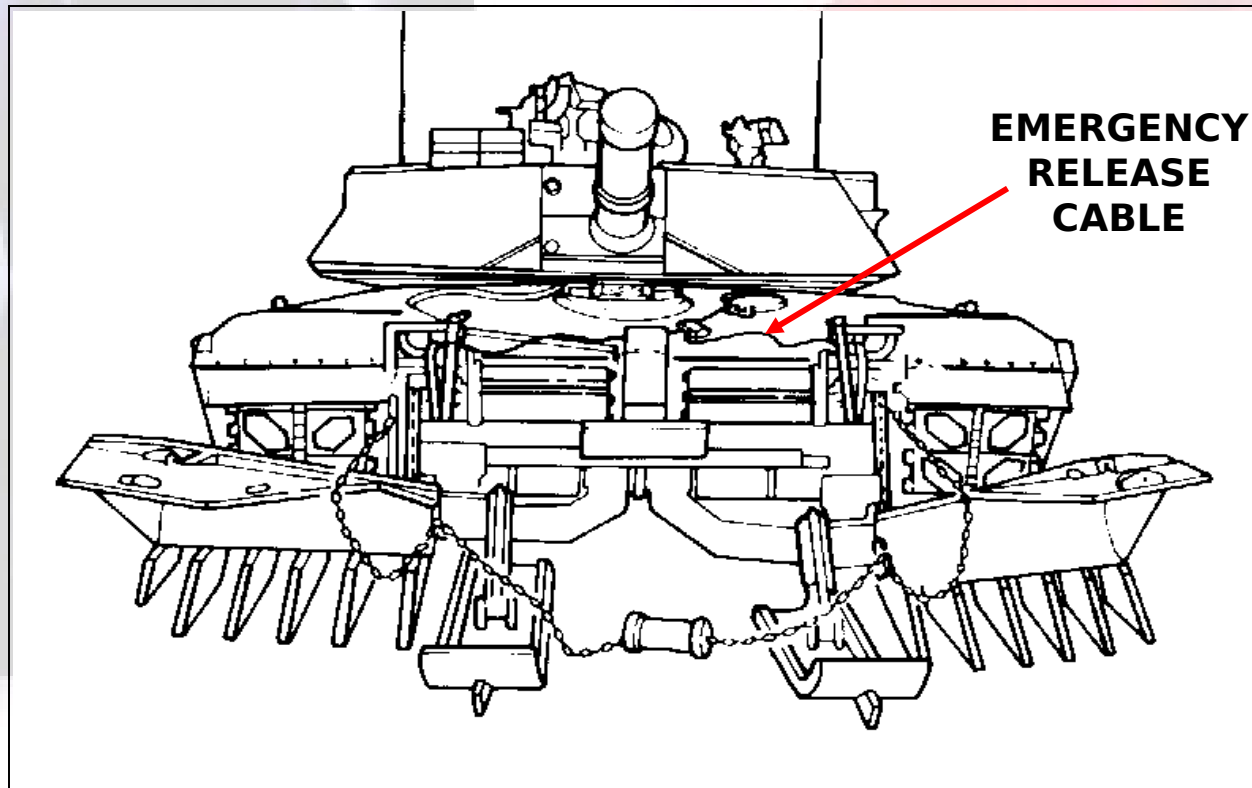
- 1. EITHER PUSH BEAM OR MOUNTING FRAME HAS A BREAK, CRACK OR DAMAGED WELD.**
- 2. ANY HARDWARE OR MOUNTING PIN MISSING.**

ACCESS COVER



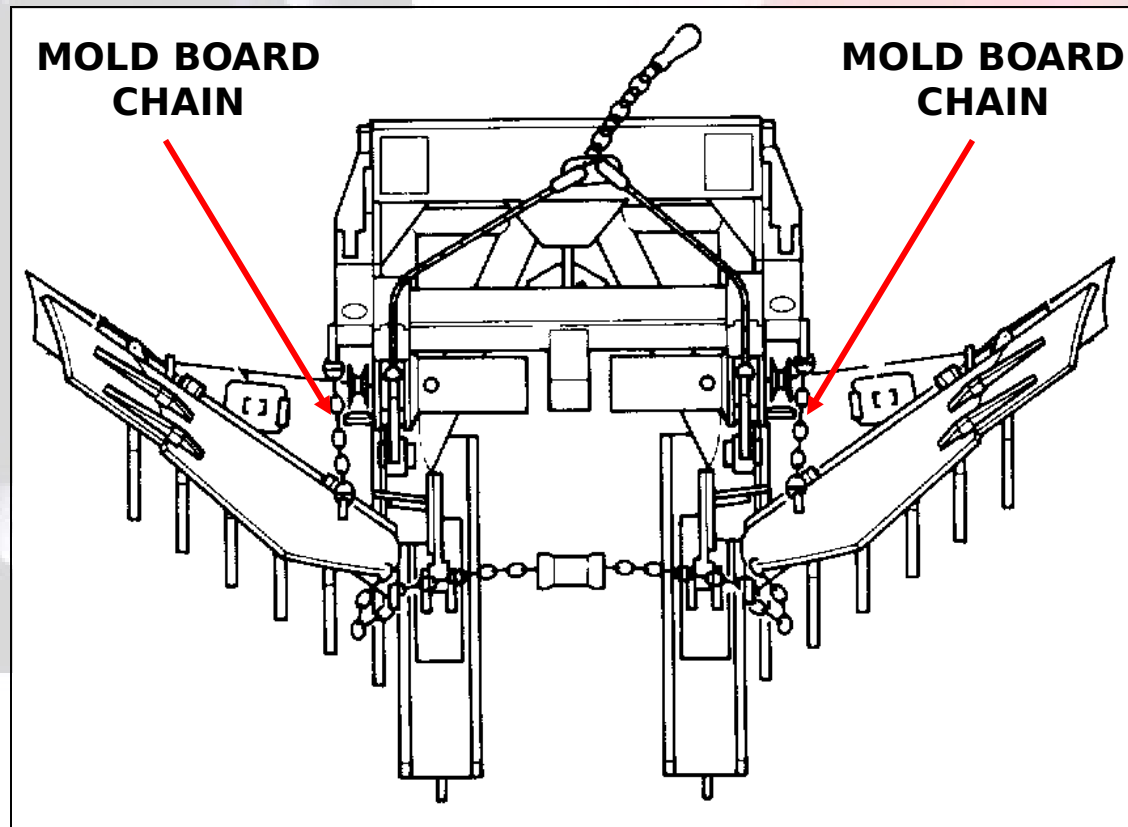
1. **CRACKS IN COVER OR MISSING SCREWS OR SEAL.**

EMERGENCY RELEASE CABLE ASSEMBLY



1. BROKEN STRANDS OF WIRE IN CABLE, KINKS, MISSING SNAP HOOKS, BROKEN CHAIN LINKS, MISSING CHAIN ASSEMBLY OR MISSING CABLE ASSEMBLY.

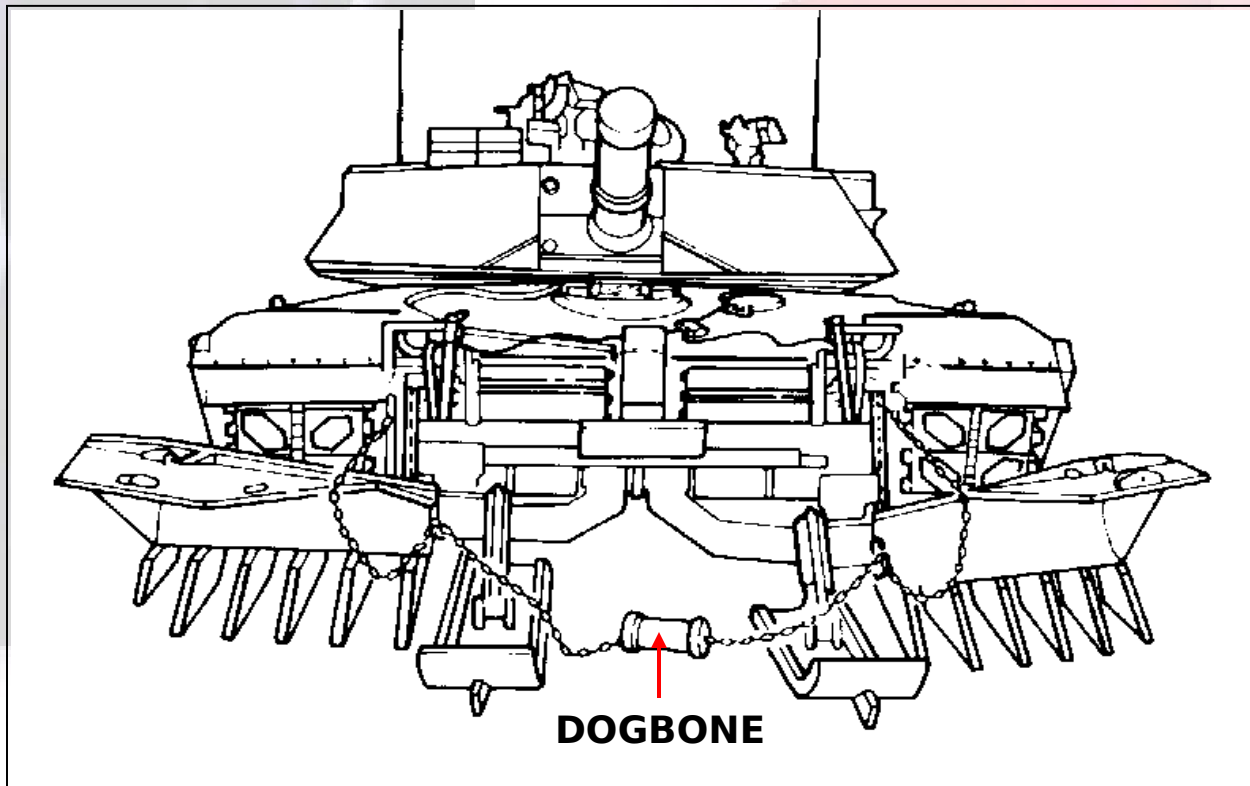
MOLD BOARD CHAIN ASSEMBLY



TOP VIEW

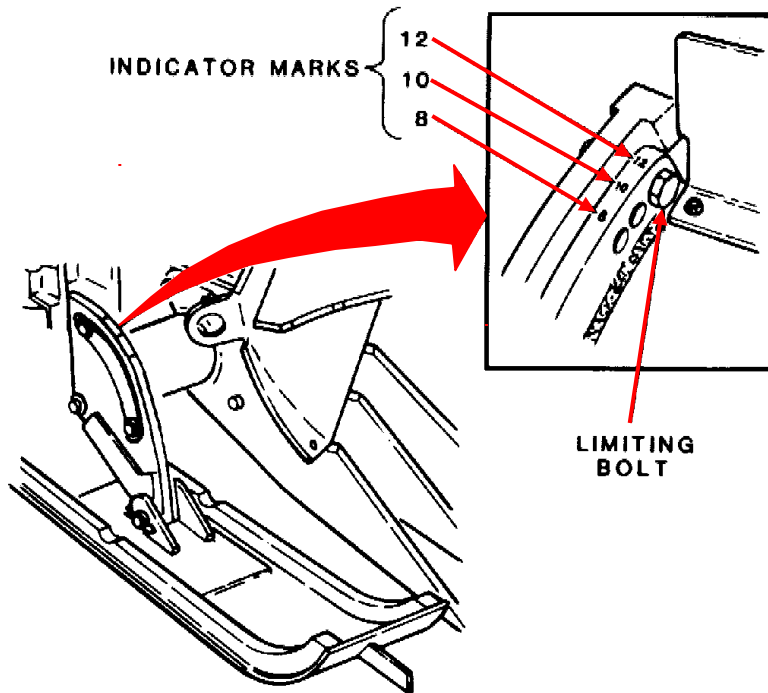
1. ANY CHAIN DISCONNECTED OR BROKEN

DOGBONE / IDA



1. DOGBONE / IDA AND CHAIN DISCONNECTED, BROKEN OR MISSING.

PREPARATION



ADJUST PLOWING DEPTH

12 INCHES - SANDY SOIL

10 INCHES - TOPSOIL

8 INCHES - HARD CLAY OR ROCKY SOIL

**Recommend setting at 8" for training ops
This reduces wear and tear on the MCB.**

**However, the chain of command can authorize
using 10" or 12" based on METT-T.**

**-- SKID SHOES ARE HEAVY! -
TWO MAN TO LIFT IS REQUIRED WHEN ADJUSTING PLOWING
DEPTH.**

The background of the image is a stylized, slightly blurred American flag. The stars and stripes are visible, with the blue field containing white stars on the left and the red and white stripes on the right. The text is overlaid on the center of the flag.

WHEN IN DOUBT, CHECK THE TM



Plow / Roller References

- **Army TM 9-2590-509-10 APRIL 1990 (Change**
- **Army TM 9-2590-509-23&P NOVEMBER 2001**
- **Army TM 5-2590-214-10 APRIL 1999 (Change**

The background of the slide is a faded American flag, with the stars and stripes visible in a light, watermark-like style.

Mine Plow Maintenance Trends

- **Lifting Mechanisms Inop (motors)
PMCS/Employment**
- **Frayed Lifting Straps
PMCS not being performed to standard**
- **Linch Pins Missing And Bent
PMCS not being performed to standard**

Mine Plow Maintenance Trends

- **Clevis's
Missing and broken (PMCS)**
- **Locking Pins
Missing and broken (PMCS)**
- **Half Moon Bolts
Missing, stripped threads and sheared (PMCS)**
- **Cannon Plug Pins
Bent, burned and missing pins (drivers
failure to properly install plugs)**

Mine Roller Maintenance Trends

- **Bleeder Valves**
Missing Screw (PMCS)
- **Cannon Plug Pins**
Bent, Burned and Missing Pins (drivers not Properly installing plugs)
- **Hub Retaining Locks**
Missing, Loose and Stripped Bolts (PMCS)
- **Disk (Roller)**
Excessive Wear
- **Tension Cables**
Missing Washers, Improper Adjustment

PMCS

- **When: During AA Ops, services, and AOR**
- **Who: Crew with PL/ PSG executing QC**
- **Where: On company line (maintain visibility)**
- **Additional maintenance expertise: Mr Polen (TACOM)**

The background of the slide is a stylized American flag. The left side features a blue field with white stars, and the right side features red and white stripes. The text is overlaid on this background.

Recommended PII **(Based On Trends)**

PLOWS

Lifting mechanisms
Large clevis's
Small clevis's
Linch pins
Lifting straps
Half moon bolts

ROLLERS

Large retaining nuts
Locking hub Keys

Improved Cable Assembly

- **Replaces the Electrical Wiring Harness for Mine**
- **Increases Drivers Vision from 0% to 87%**

Improved Cable Components

**Periscope Cable
Cable Assembly**

**NSN 6150-01-458-6873
NSN 6150-01-434-1113**